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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/763,058	01/22/2004	Hiroshi Uno	1990.69202 3718		
24978 7	590 08/26/2005		EXAMINER		
GREER, BURNS & CRAIN			KAPADIA, VARSHA A		
300 S WACKE			1071017	D. 1000 1000	
25TH FLOOR			ART UNIT	PAPER NUMBER	
CHICAGO, IL 60606			2651		
			DATE MAILED: 08/26/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	ı No.	Applicant(s)				
		10/763,058		UNO ET AL.				
		Examiner		Art Unit				
		Varsha A. K	•	2651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic. e period for reply specified above is less than thirty (30) data period for reply is specified above, the maximum statutor irre to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION.  7 CFR 1.136(a). In no eventation.  1 ys, a reply within the statutory period will apply and will by statute. cause the applic	t, however, may a reply be time ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONE	nely filed s will be considered time the mailing date of this c O (35 U.S.C. § 133).	ly. communication.			
Status								
1)⊠	Responsive to communication(s) filed on 22 January 2004.							
2a)□								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)⊠ 6)⊠ 7)□ 8)□ Applicat	4) Claim(s) 1-12 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-6 is/are allowed.  6) Claim(s) 7-12 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
10)⊠	The specification is objected to by the Ex The drawing(s) filed on <u>22 January 2004</u> Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	! is/are: a)☐ accept to the drawing(s) be correction is required	held in abeyance. See I if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).			
Priority (	under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachmen	• •							
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-9 mation Disclosure Statement(s) (PTO-1449 or PTC or No(s)/Mail Date <u>01/22/04</u> .	948) 0/SB/08) 5		s)/Mail Date nformal Patent Application (PTO-152)				

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#### Information Disclosure

The information disclosure statement filed 01/22/04 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

However, the prior art submitted with an abstract written in English language has been considered by the examiner. See the initialed copy of form 1449 for details.

## Rejection Under 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Reed et al (5,961,658).

With regards to claim 7, Reed et al discloses a signal processing method utilizing a partial response to record information on a medium and then regenerate the information from the medium (see fig. 2 and disclosure thereof), wherein a signal recorded on the medium is subjected to the convolution of (1-D) where D is a bit delay operator (See fig.6 element 152 disclosure thereof and col.11 lines 59-67); a regeneration signal from the medium is subjected to an equalizing process including the convolution of (k-s\*D).(1+D)^n (see the paragraph bridging cols. 6 and 7; wherein k and s are considered to be 1).

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With regards to claim 8, Reed et al discloses that the information is decoded from the equalized signal (see fig.2 elements 74,88 and 92 and disclosure thereof).

With regards to claims 9-12, the apparatus limitations recited in claims 9-12 and similar to the method limitations recited in claims 7-8. Therefore the rejection applied to method claims 7-8 above in this office action is herein repeated for the same reasons of anticipate.

## Allowable Subject Matter

Claims 1-6 are allowed.

Applicant's claimed invention differs from the prior art of record by specifically reciting that in a signal processing method/circuit a regeneration signal from the medium is subjected to an equalizing process including convolution of (k-s\*D) where D is one bit delay operator and that k is not = to s.

#### **Prior Art Cited**

Reference to Noda (6,850,573) (see col.3 lines 66 to col.4 line 42) cited as of interest.

Reference to Vasic et al (6,691,263) cited as of interest.

Reference to Uno (5,995,545) cited as of interest.

Reference to Hayashi (5,799,046) cited as of interest.

Reference to Coker et al (6,625235) cited as of interest.

Reference to Kobayashi et al (2001/0036236 A1) cited as of interest.

Reference to Kobayashi et al (5,563,864) cited as of interest.

Reference to Uno et al (6,633,444) cited as of interest.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Varsha A. Kapadia whose telephone number is (571)272-7557. The examiner can normally be reached on Mon Tue and Thurs. from 6:30 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571 272 7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VK

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